Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the anerwork Reduction Apt of 1995 no Persons are required to respond to a collection of information unless it contains a valid OMR control number

Substitute for SHAPEN WPTO

FEB 2 3 2006

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Application Number 10/659,647 Filing Date September 10, 2003 First Named Inventor Mark Yarkosky Art Unit 2686 **Examiner Name** Olumide Ajibade Akonai

Complete if Known

(Use as many sheets as necessary)

Sheet

Attorney Docket Number 2052

	U. S. PATENT DOCUMENTS						
Examiner Initials*	Cite No.1	Document Number Number-Kind Code ^{2 (if known)}	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear		
	1	us- 5,293,172	03-08-1994	Lamberty et al.			
	2	us- 5,628,052	05-1997	DeSantis et al.			
	3	us- 5,812,935	09-1998	Kay			
	4	us- 5,970,061	10-1999	Koludo			
	5	us- 6,005,530	12-21-1999	Jovanovich			
	6	us- 6,006,075	12-1999	Smith et al.			
	7	us-6,035,218	03-2000	Oh et al.			
	8	us-6,108,323	08-2000	Gray			
	9	us-6,433,737	08-2002	Katz			
	10	us-6,515,635	02-04-2003	Chiang			
	11	us- 6,600,918	07-2003	Youngs et al.			
	12	us-6,600,934	07-2003	Yun et al.			
	13	us-6,609,012	08-2003	Malmgren et al.			
	14	us-6,611,695	08-2003	Periyalwar			
	15	us-6,697,642	02-2004	Thomas			
	16	us-6,731,905	05-2004	Ogino et al.			
	17	us-6,751,480	06-2004	Koglantis et al.			
	18	us-6,795,018	09-21-2004	Guo			

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No.1	Foreign Patent Document Country Code ³ "Number ⁴ "Kind Code ⁵ (<i>if known</i>)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁵
	1				1	

Examiner	Date	
Signature	Considered	
ر ا		

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Under the Panerwork Reduction Apt of 1995 no Persons are required to respond to a collection of information unless it contains a valid OMR control number

Sub	stitute for form 1449A/PTO	Complete if Known		
Substitute for form 1449701 10		Application Number	10/659,647	
IN	FORMATION DISCLOSURE	Filing Date	September 10, 2003	
Si	TATEMENT BY APPLICANT	First Named Inventor	Mark Yarkosky	
		Art Unit	2686	
	(Use as many sheets as necessary)	Examiner Name	Olumide Ajibade Akonai	
Sheet	2 of 3	Attorney Docket Number	2052	

U. S. PATENT DOCUMENTS						
Examiner Initials*	Cite No.1	Document Number Number-Kind Code ^{2 (if known)}	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
	19	us- 6,801,790	10-2004	Rudrapatna		
	20	us-6,834,198	12-21-2004	Hachenberger et al.		
	21	us- 2002/0132600	09-2002	Rudrapatna		
	22	us- 2002/0187812	12-12-2002	Guo		
	23	us-2002/0187813	12-12-2002	Guo		
	24	us- 2003/0032453	02-2003	Katz et al.		
	25	us- 2003/0222818	12-04-2003	Regnier et al.		
	26	us- 2004/0157645	08-12-2004	Smith et al.		
	27	us- 2005/0068231	03-31-2005	Regnier et al.		
	28	us- 2005/0170832	08-2005	Cooper		
		US-				
		US-				
		US-			2.050	
-		US-				
		US-				
		US-				
		US-				
		US-				

FOREIGN PATENT DOCUMENTS						
Examiner Cite		Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages	_5
initials*	NO.	Country Code ³ "Number ⁴ "Kind Code ⁵ (if known)	WIN-DD-1111	Applicant of older bootiness	or Relevant Figures Appear	<u>'</u>
						-
	1					├
						┢

Examiner	Date	
Signature	Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Approved for use through 06/30/2006. OMB 0651-0031 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Apt of 1995 no Persons are required to respond to a collection of information unless it contains a valid OMR control number.

	Substitute for form 1449B/PTO		Complete if Known		
			Application Number	10/659,647	
	INFORMATION DISCL	OSURE	Filing Date	September 10, 2003	
	STATEMENT BY APP	LICANT	First Named Inventor	Mark Yarkosky	
			Art Unit	2686	
	(Use as many sheets as necessa	ary)	Examiner Name	Olumide Ajibade Akonai	
S	heet 3	of 3	Attorney Docket Number	2052	

NON PATENT LITERATURE DOCUMENTS						
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	Γ2			
	29	Per Lehne and Magne Pettersen, "An Overview of Smart Antenna Technology for Mobile communications Systems," IEEE Communications Surveys, Vol. 2 No. 4, 1999.				
	30	Rashid Attar and Eduardo Esteves, "A Reverse Link Outer-Loop Power Control Algorithm for cdma2000 1xEV Systems," ICC 2002, April 2002.				
	31	Eduardo Esteves et al., "Link Adaptation Techniques for High-Speed Packet Data in Third Generation Cellular Systems," European Wireless Conference 2002.				
	32	Mingxi Fan and Eduardo Esteves, "The Impact of Antenna-Array Receivers on the Reverse Link Performance of CDMA2000 1xEV High Rate Packet Data Systems," VTC 2003.				
	33	Metawave "spotlight 2230" brochure, http://www.metawave.com/PDFs/Products/ Integrated/SL2230_brochure.pdf, printed from the World Wide Web on May 21, 2002.				
	1		_			

	The second secon		
Examiner		Date	
Signature		Considered	

^{*} EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.